AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) Receiver antenna system ~~(1)~~ of broad bandwidth ~~consisting of several~~ comprising a plurality of active, vertical individual antennae ~~($2_1, 2_2, \ldots, 2_N$)~~ with an electrically-active antenna height adapted to the respective received frequency range,

~~characterized in that~~ wherein

the mutual electromagnetic coupling between the individual antennae ~~($2_1, 2_2, \ldots, 2_N$)~~, which are positioned at a small spacing distance, is minimized.

2. (Currently Amended) Receiver antenna system according to claim 1,

~~characterized in that~~ wherein

the mutual coupling between the individual antennae ~~($2_1, 2_2, \ldots, 2_N$)~~ is minimized by optimization of ~~the~~ individual mechanical and electrically-active antenna heights, ~~the~~ individual antenna diameters, ~~the~~ spacing distances between individual antennae, and the input impedances of ~~the~~ active base-point electronics ~~($7_1, 7_2, \ldots, 7_N$)~~ associated with the individual active antennae ~~($2_1, 2_2, \ldots, 2_N$)~~.

3. (Currently Amended) Receiver antenna system according to claim 2,

~~characterized in that~~ wherein

the respective electrically-active antenna height is optimized by an optimized arrangement of several impedance elements ~~($Z_{\mu,\nu}$)~~ in the respective individual antennae ~~($2_1, 2_2, \ldots, 2_N$)~~ and their optimized interconnection.

4. (Currently Amended) Receiver antenna system according to claim 3, ~~characterized in that~~ wherein

the optimized arrangement of the impedance elements ~~($Z_{\mu,\nu}$)~~ relative to one another takes place both within one individual antenna ~~($2_1, 2_2, \ldots, 2_N$)~~ and also between the individual antennae ~~($2_1, 2_2, \ldots, 2_N$)~~.

5. (Currently Amended) Receiver antenna system according to claim 4, ~~characterized in that~~ wherein

~~the~~ printed-conductor portions ~~($1_{\mu,\nu}$)~~ between the intermittent impedance elements ~~($Z_{\mu,\nu}$)~~ of each individual antenna ~~($2_1, 2_2, \ldots, 2_N$)~~ are of a shorter length with increasing distance from the base point ~~($5_1, 5_2, \ldots, 5_N$)~~.

6. (Currently Amended) Receiver antenna system according to ~~any one of claims~~ claim 3 ~~to 5~~, ~~characterized in that~~ wherein

the interconnection of the impedance elements ~~($Z_{\mu,\nu}$)~~ provides a low impedance in the case of low received frequencies, and provides a high impedance in the case of high received frequencies.

7. (Currently Amended) Receiver antenna system according to claim 6, ~~characterized in that~~ wherein

the interconnection of the impedance elements ~~($Z_{\mu,\nu}$) consists of~~ comprises a parallel circuit comprising an inductance ~~($L_{\mu,\nu}$)~~ and an ohmic resistor ~~($R_{\mu,\nu}$)~~ or annular or tubular ferrite cores fitted onto ~~the~~ printed conductor portions.

8. (Currently Amended) Receiver antenna system according to ~~any one of claims~~ claim 2 ~~to 7~~,

~~characterized in that~~ wherein

the input impedance ~~(10_1, 10_2,..., 10_N)~~ of the active base-point electronics ~~(7_1, 7_2,..., 7_N)~~ provides a high-resistance input impedance in those of the individual antennae ~~(2_1, 2_2,..., 2_N)~~, which are determined for the reception of low-frequency transmission signals.

9. (Currently Amended) Receiver antenna system according to claim 8,

~~characterized in that~~ wherein

the input impedance ~~(10_1, 10_2,..., 10_N)~~ of the active base-point electronics ~~(7_1, 7_2,..., 7_N) consists of~~ comprises a parallel circuit comprising a high-resistance resistor ~~(R_{E1}, R_{E2},..)~~ and a low-capacity capacitor ~~(C_{E1}, C_{E2},..)~~ in those of the individual antennae ~~(2_1, 2_2,..., 2_N)~~, which are determined for the reception of low-frequency transmission signals.

10. (Currently Amended) Receiver antenna system according to ~~any one of claims~~ claim 2 ~~to 9~~,

~~characterized in that~~ wherein

the input impedance ~~(10_1, 10_2,..., 10_N)~~ of the active base-point electronics ~~(7_1, 7_2,..., 7_N)~~ in those of the individual antennae ~~(2_1, 2_2,..., 2_N)~~, which are determined for the reception of relatively high-frequency transmission signals, is designed to be of low-resistance for low-frequency transmission signals and to be at the base-point impedance of the passive antenna region ~~(6_1, 6_2,..., 6_N)~~ of the respective individual antenna ~~(2_1, 2_2,..., 2_N)~~ for relatively high-frequency transmission signals.

11. (Currently Amended) Receiver antenna system according to claim 10, ~~characterized in that~~ wherein

the input impedance ~~(10_1, 10_2,..., 10_N)~~ of the active base-point electronics ~~(7_1, 7_2,..., 7_N)~~ in those of the individual antennae ~~(2_1, 2_2,..., 2_N)~~, which are determined for the reception of relatively high-frequency transmission signals, ~~consists of~~ comprises a parallel circuit comprising a resistor ~~(..., R_{En-1}, R_{En})~~ and an inductance ~~(..., L_{En-1}, L_{En})~~.

12. (Currently Amended) Receiver antenna system according to ~~any one of claims~~ claim 8 ~~to 12~~, ~~characterized in that~~ wherein

the input impedance ~~(10_1, 10_2,..., 10_N)~~ of the active base-point electronics ~~(7_1, 7_2,..., 7_N)~~ is additionally mismatched in a targeted manner ~~preferably outside the useful frequency range to the base-point impedance of the passive antenna region (6_1, 6_2,..., 6_N) of the respective individual antenna (2_1, 2_2,..., 2_N)~~.

13. (Currently Amended) Receiver antenna system according to ~~any one of claims~~ wherein 2 ~~to 12~~, ~~characterized in that~~ wherein

the received frequency ranges of the individual antennae ~~(2_1, 2_2,..., 2_N)~~ adjoin one another and form a complete received frequency range.

14. (Currently Amended) Receiver antenna system according to claim 13, ~~characterized in that~~ wherein

phase matching networks ~~($8_1, 8_2, \ldots, 8_N$)~~ for phase matching of the received transmission signals and a crossover network ~~(9)~~ for combining the individual received transmission signals are connected to the passive antenna regions ~~($6_1, 6_2, \ldots, 6_N$)~~ for the reception of transmission signals and to the base-point electronics ($7_1, 7_2, \ldots, 7_N$) for the amplification and filtering of the received transmission signals.

15. (New) Receiver antenna system according to claim 12, wherein the input impedance of the active base-point electronics is additionally mismatched in a targeted manner outside the useful frequency range to the base-point impedance of the passive antenna region of the respective individual antenna.